

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW DEMAND BASED PART-TIME TRAFFIC RESPONSIVE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 25 (FALLS ROAD) AND ST. PAULS SCHOOL ROAD IN BALTIMORE COUNTY, MARYLAND. MD 25 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION

THE INTERSECTION WILL OPERATE WITH THE MD 25 (FALLS ROAD) APPROACHES FLASHING YELLOW AND THE ST. PAULS SCHOOL ROAD APPROACH FLASHING RED.

SPECIAL OPERATION

WHEN ACTIVATED, THE TRAFFIC SIGNAL WILL OPERATE IN A NEMA (4) PHASE, FULL-TRAFFIC-ACTUATED MODE AND WILL UTILIZE A TIME CLOCK FOR DAILY SCHOOL OPERATIONS.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE NORTHBOUND MD 25 APPROACH.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS), INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

PHONE DROP

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

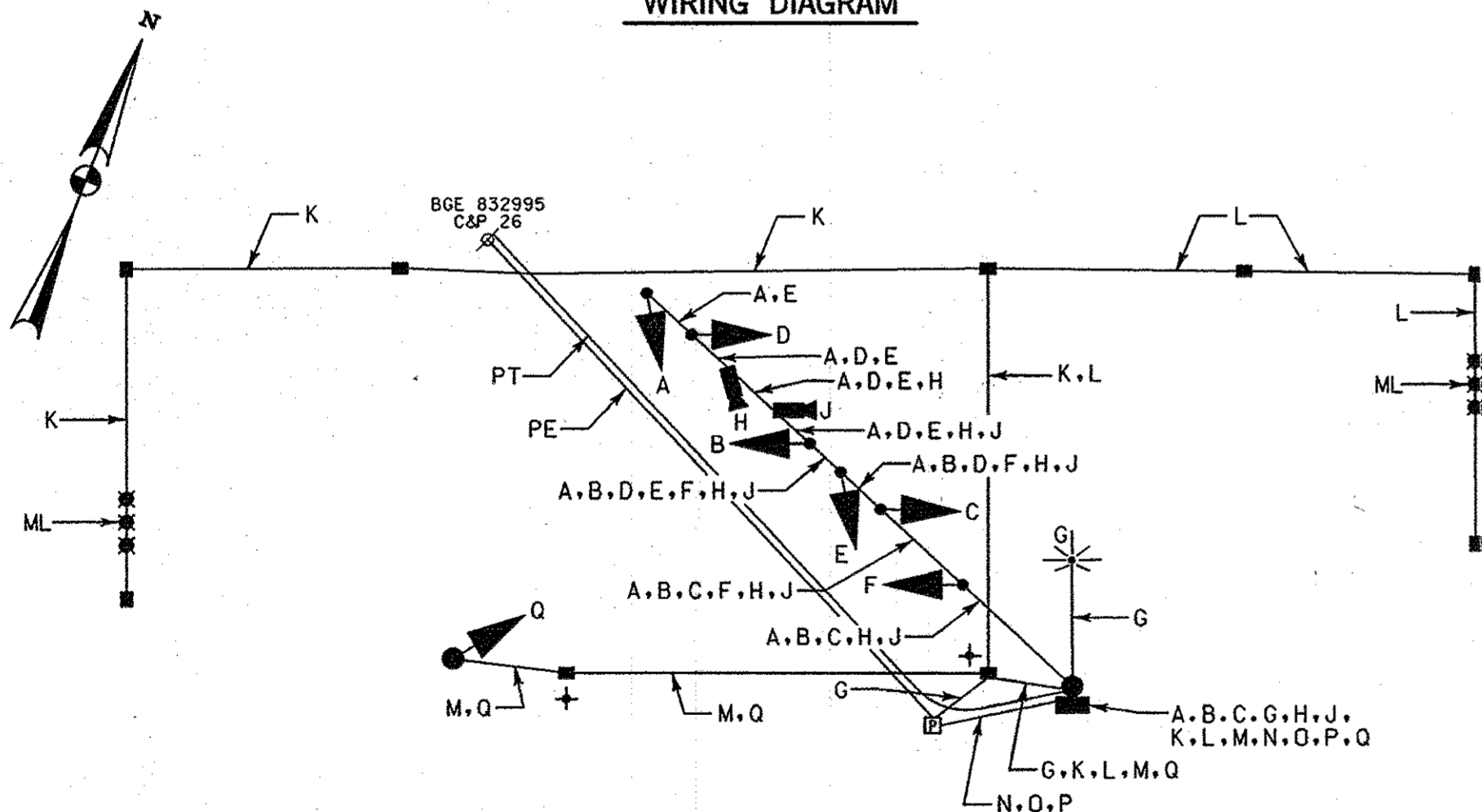
MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



WIRING KEY

- A, B, C, Q } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D, E, F } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) - TRAY CABLE
- H } VIDEO CAMERA DETECTION LEAD-IN CABLE
- J } VIDEO CAMERA DETECTION LEAD-IN CABLE
- K } MICROLOOP PROBE LEAD-IN
- L } MICROLOOP PROBE LEAD-IN
- M } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- N, O, P } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- ML - MICROLOOP PROBE SET
- PT - PROPOSED UNDERGROUND TELEPHONE SERVICE
- PE - PROPOSED UNDERGROUND ELECTRICAL SERVICE
- + - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	49 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : <ul style="list-style-type: none">- 2 EACH S1-1 SIGN (36 IN. x 36 IN.) - MAST ARM MOUNT- 1 EACH S5-2 (24 IN. x 30 IN.) - GROUND MOUNT- 2 EACH W3-3 SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL (24 IN. x 24 IN.) AND FLAG - GROUND MOUNT

EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

PHASE CHART

	1	2	3	4	5	6	7
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
SPECIAL OPERATION							
PHASE 2 + 5	G	G	G	R	R	R	R
2 + 5 CHANGE	G	G	G	R	R	R	R
PHASE 2 + 6	G	G	G	G	G	R	R
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
NORMAL OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1003	1 EACH	MAINTENANCE OF TRAFFIC
2002	2 C.Y.	TEST PIT EXCAVATION
5005	60 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	270 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
8006	1 EACH	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8008	1 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8017	1 EACH	MAST ARM POLE & 70 FT MAST ARM ANY 'T' DIMENSION
8020	2 EACH	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT
8021	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGNMENT
8025	2 EACH	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8033	350 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8035	750 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8036	38 L.F.	WOOD SIGN SUPPORTS UP TO 4 X 6
8038	49 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	135 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8042	1 EACH	METERED SERVICE PEDESTAL EMBEDDED
8044	90 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
8046	9 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8050	25 EACH	12 INCH LED SIGNAL HEAD SECTION
8052	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8056	75 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	340 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8058	75 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
8064	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT

TOD NO: XX446-04
SHA NO: BA864A53/B53
MD 25@ ST PAUL SCHOOL RD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 25 (Falls Road) and St. Paul's School Road
Brooklandville, MD

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 12/11/2008 CONTRACT NO. XX446S185

DESIGNED BY S. Bloss COUNTY Baltimore
DRAWN BY S. Bloss LOGMILE 03025004.55
CHECKED BY N. Leary TMS NO. J205
F.A.P. NO. TOD NO.

TS NO. 4698 DRAWING TSP-3 OF 3 SHEET NO. 3 OF 3



Whitman, Requardt and Associates, LLP
Engineers, Architects and Planners

801 South Caroline Street
Baltimore, Maryland 21231
410-235-3450

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